

0570
0823

15



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/954,987B

DATE: 08/22/2002
TIME: 15:57:20

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\08222002\I954987B.raw

p.6

ENTERED

4 <110> APPLICANT: Stefan Bauer
5 Grayson B. Lipford
6 Hermann Wagner
8 <120> TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
9 CpG-BASED IMMUNO-AGONIST/ANTAGONIST
12 <130> FILE REFERENCE: C1041/7016 (AWS)
14 <140> CURRENT APPLICATION NUMBER: US 09/954,987B
15 <141> CURRENT FILING DATE: 2001-09-17
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21 <151> PRIOR FILING DATE: 2001-01-23
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62  aaggtatcct ttgcccgcc cccactggca agttccttca agaacctggt gtcactgcag 1140
63  gagctgaaca tgaacggcat cttcttccgc tcgctcaaca agtacacgct cagatggctg 1200
64  gccgatctgc ccaaactcca cactctgcat cttcaaata gaactcatcaa ccaggcacag 1260
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| 114 | tcogacttgc | tccacctgtc | caacctgctg | cagctgaacc | tcaagtggaa | ctgtccaccc | 300 |
| 115 | actggcetta | gccccctgca | cttctcttgc | cacatgacca | ttgagcccag | aaccttcctg | 360 |
| 116 | gctatgctga | cactggagga | gctgaacctg | agctataatg | gtatcaccac | tgtgccccga | 420 |
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| 125 | tcttctggt | tccaaggtct | ggtcaacctc | tccgtgctgg | acctaaagcg | gaactttctc | 960 |
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| 129 | aagtacacgc | tcagatggct | ggccgatctg | cccaaactcc | acactctgca | tcttcaaagt | 1200 |
| 130 | aacttcatca | accaggcaca | gtcagcctc | tttggtacct | tccgagccct | tcgctttgtg | 1260 |
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| 133 | accctgctt | ctaagaactt | catggacagg | tgtagaact | tcaagttcac | catggacctg | 1440 |
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| 137 | tcgttcagtg | agctaccaca | gttgacggcc | ctggacctga | gctacaacag | ccagcccttt | 1680 |
| 138 | agcatgaagg | gtataggcca | caatttcagt | tttggtggcc | atctgtccat | gctacacagc | 1740 |
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| 149 | aaggtgcctg | gcctggctaa | tgggtgtgaag | tgtggcagcc | ccggccagct | gcagggccgt | 2400 |
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| 157 | gaccgcgtca | gtggcctcct | gcgcaccagc | ttcctgctgg | ctcagcagcg | cctgttgga | 2880 |
| 158 | gaccgcaagg | acgtggtggt | gttggtgatc | ctgcgtccgg | atgccaccgc | ctcccgtat | 2940 |
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| 160 | gggcaggggg | gcttctgggc | ccagctgagt | acagccctga | ctagggacaa | ccgccacttc | 3060 |

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Input Set : A:\seqlist.txt

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173 Leu Pro Cys Glu Leu Lys Pro His Gly Leu Val Asp Cys Asn Trp Leu

174 35 40 45

175 Phe Leu Lys Ser Val Pro Arg Phe Ser Ala Ala Ala Ser Cys Ser Asn

176 50 55 60

177 Ile Thr Arg Leu Ser Leu Ile Ser Asn Arg Ile His His Leu His Asn

178 65 70 75 80

179 Ser Asp Phe Val His Leu Ser Asn Leu Arg Gln Leu Asn Leu Lys Trp

180 85 90 95

181 Asn Cys Pro Pro Thr Gly Leu Ser Pro Leu His Phe Ser Cys His Met

182 100 105 110

183 Thr Ile Glu Pro Arg Thr Phe Leu Ala Met Arg Thr Leu Glu Glu Leu

184 115 120 125

185 Asn Leu Ser Tyr Asn Gly Ile Thr Thr Val Pro Arg Leu Pro Ser Ser

186 130 135 140

187 Leu Val Asn Leu Ser Leu Ser His Thr Asn Ile Leu Val Leu Asp Ala

188 145 150 155 160

189 Asn Ser Leu Ala Gly Leu Tyr Ser Leu Arg Val Leu Phe Met Asp Gly

190 165 170 175

191 Asn Cys Tyr Tyr Lys Asn Pro Cys Thr Gly Ala Val Lys Val Thr Pro

192 180 185 190

193 Gly Ala Leu Leu Gly Leu Ser Asn Leu Thr His Leu Ser Leu Lys Tyr

194 195 200 205

195 Asn Asn Leu Thr Lys Val Pro Arg Gln Leu Pro Pro Ser Leu Glu Tyr

196 210 215 220

197 Leu Leu Val Ser Tyr Asn Leu Ile Val Lys Leu Gly Pro Glu Asp Leu

198 225 230 235 240

199 Ala Asn Leu Thr Ser Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg

200 245 250 255

201 Arg Cys Asp His Ala Pro Asn Pro Cys Ile Glu Cys Gly Gln Lys Ser

202 260 265 270

203 Leu His Leu His Pro Glu Thr Phe His His Leu Ser His Leu Glu Gly

204 275 280 285

205 Leu Val Leu Lys Asp Ser Ser Leu His Thr Leu Asn Ser Ser Trp Phe

206 290 295 300

207 Gln Gly Leu Val Asn Leu Ser Val Leu Asp Leu Ser Glu Asn Phe Leu

208 305 310 315 320

209 Tyr Glu Ser Ile Asn His Thr Asn Ala Phe Gln Asn Leu Thr Arg Leu

210 325 330 335

211 Arg Lys Leu Asn Leu Ser Phe Asn Tyr Arg Lys Lys Val Ser Phe Ala

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216          370          375          380
217 Arg Trp Leu Ala Asp Leu Pro Lys Leu His Thr Leu His Leu Gln Met
218          385          390          395          400
219 Asn Phe Ile Asn Gln Ala Gln Leu Ser Ile Phe Gly Thr Phe Arg Ala
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221 Leu Arg Phe Val Asp Leu Ser Asp Asn Arg Ile Ser Gly Pro Ser Thr
222          420          425          430
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224          435          440          445
225 Leu Leu Ser Ala Asp Pro His Pro Ala Pro Leu Ser Thr Pro Ala Ser
226          450          455          460
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228          465          470          475          480
229 Ser Arg Asn Asn Leu Val Thr Ile Lys Pro Glu Met Phe Val Asn Leu
230          485          490          495
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232          500          505          510
233 Val Asn Gly Ser Gln Phe Leu Pro Leu Thr Asn Leu Gln Val Leu Asp
234          515          520          525
235 Leu Ser His Asn Lys Leu Asp Leu Tyr His Trp Lys Ser Phe Ser Glu
236          530          535          540
237 Leu Pro Gln Leu Gln Ala Leu Asp Leu Ser Tyr Asn Ser Gln Pro Phe
238          545          550          555          560
239 Ser Met Lys Gly Ile Gly His Asn Phe Ser Phe Val Ala His Leu Ser
240          565          570          575
241 Met Leu His Ser Leu Ser Leu Ala His Asn Asp Ile His Thr Arg Val
242          580          585          590
243 Ser Ser His Leu Asn Ser Asn Ser Val Arg Phe Leu Asp Phe Ser Gly
244          595          600          605
245 Asn Gly Met Gly Arg Met Trp Asp Glu Gly Gly Leu Tyr Leu His Phe
246          610          615          620
247 Phe Gln Gly Leu Ser Gly Leu Leu Lys Leu Asp Leu Ser Gln Asn Asn
248          625          630          635          640
249 Leu His Ile Leu Arg Pro Gln Asn Leu Asp Asn Leu Pro Lys Ser Leu
250          645          650          655
251 Lys Leu Leu Ser Leu Arg Asp Asn Tyr Leu Ser Phe Phe Asn Trp Thr
252          660          665          670
253 Ser Leu Ser Phe Leu Pro Asn Leu Glu Val Leu Asp Leu Ala Gly Asn
254          675          680          685
255 Gln Leu Lys Ala Leu Thr Asn Gly Thr Leu Pro Asn Gly Thr Leu Leu
256          690          695          700
257 Gln Lys Leu Asp Val Ser Ser Asn Ser Ile Val Ser Val Val Pro Ala
258          705          710          715          720
259 Phe Phe Ala Leu Ala Val Glu Leu Lys Glu Val Asn Leu Ser His Asn
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:126; Xaa Pos. 28,29,30
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Seq#:145; Xaa Pos. 2,3,5,6,7,8,9,10,12,13
Seq#:196; Xaa Pos. 4,5,7,8,9,10,11,12,14,15
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